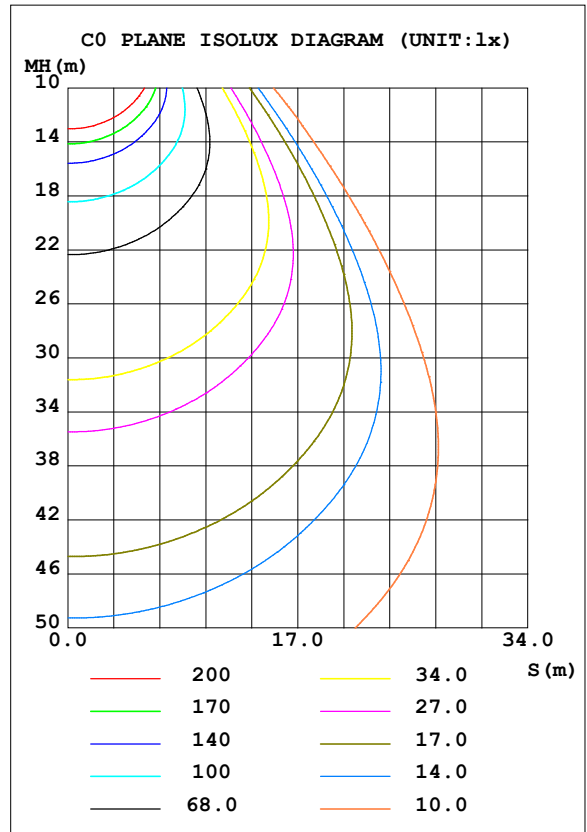
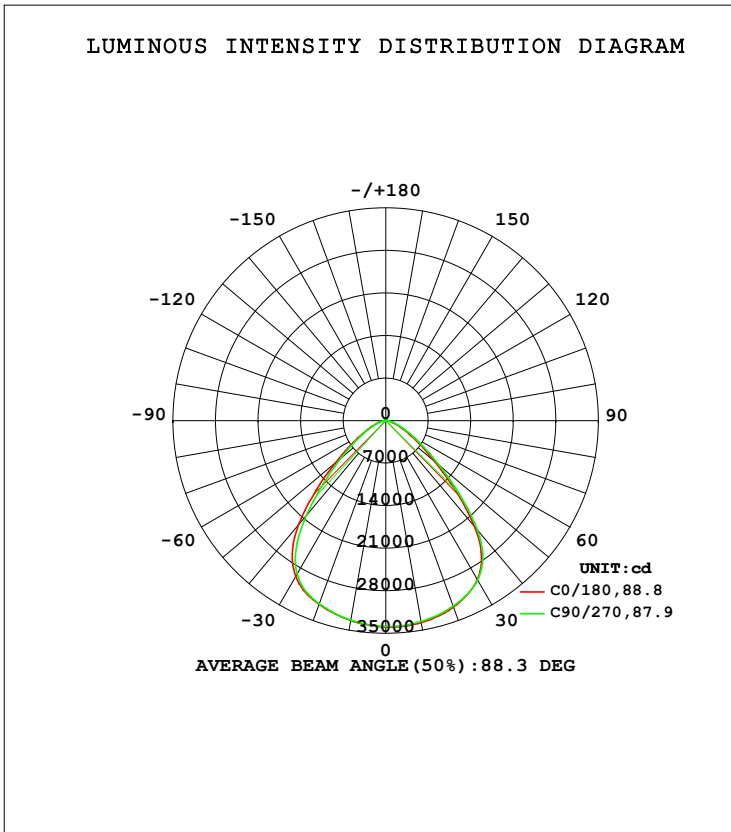


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.9V I:3.891A P:496.9W PF:0.9970 Freq:59.97Hz Lamp Flux:69357x1 lm		
NAME: ASD-UHB3-500ADAC-BK-500W3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.42*0.42m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 139.57 lm/W			
MODEL		I _{max} (cd)	33990	S/MH (C0/180)	1.26
NOMINAL POWER (W)	500	LOR (%)	100.0	S/MH (C90/270)	1.22
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	69357	<input type="checkbox"/> UP, DN (C0-180)	0.5, 50.9
NOMINAL FLUX (lm)	69357	CIE CLASS	DIRECT	<input type="checkbox"/> UP, DN (C180-360)	0.5, 48.1
LAMPS INSIDE	1	<input type="checkbox"/> up (%)	1.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120	<input type="checkbox"/> down (%)	99.0	CIBSE SHR MAX	1.30



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 27DEG
 Operators: lianghaizhu
 Test Date: 2023-04-28

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity: 56%
 Test Distance: 6.500m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

mm	C0	C45	C90	C135	C180	C225	C270	C315	mm	□ zone	□ total	%lum, lamp
10	3373	3366	3355	3340	3338	3332	3332	3341	0- 10	3215	3215	4.74,4.74
20	3263	3255	3247	3233	3215	3204	3204	3219	10- 20	9324	12539	18.5,18.5
30	3017	3012	3027	3022	2962	2927	2916	2949	20- 30	14432	26971	39.7,39.7
40	2274	2251	2349	2381	2231	2112	2033	2085	30- 40	16628	43599	64.2,64.2
50	1064	1108	1161	1216	1083	1040	968.9	963.9	40- 50	12380	55979	82.5,82.5
60	449.7	495.9	516.2	537.2	458.9	476.9	424.2	428.9	50- 60	6551	62530	92.1,92.1
70	182.0	204.8	218.0	224.7	189.2	198.1	176.8	174.7	60- 70	3127	65657	96.7,96.7
80	54.36	63.23	73.73	77.47	63.66	63.19	52.37	48.63	70- 80	1280	66937	98.6,98.6
90	3.851	4.104	4.259	4.765	3.624	3.651	3.685	3.630	80- 90	283.5	67221	99,99
100	4.369	4.481	4.404	4.254	4.150	4.223	4.307	4.259	90-100	43.40	67264	99.1,99.1
110	5.839	5.700	5.514	5.528	5.620	5.676	5.895	5.937	100-110	51.66	67316	99.2,99.2
120	8.972	8.739	8.550	8.526	8.740	8.804	9.056	9.080	110-120	71.41	67387	99.3,99.3
130	12.40	12.15	11.97	11.93	12.28	12.29	12.59	12.51	120-130	94.16	67481	99.4,99.4
140	15.65	15.45	15.25	15.20	15.74	15.70	16.01	15.83	130-140	107.7	67589	99.6,99.6
150	18.69	18.50	18.26	18.14	18.93	18.85	19.16	18.97	140-150	107.4	67696	99.7,99.7
160	21.99	21.69	21.53	21.33	22.35	22.19	22.55	22.30	150-160	93.54	67790	99.9,99.9
170	25.20	24.82	24.82	24.60	25.41	25.15	25.51	25.21	160-170	66.46	67856	100,100
180	26.74	26.45	26.64	26.34	26.77	26.42	26.67	26.33	170-180	24.60	67881	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 50638 lm

%lum = 74.6%

%lamp = 74.6%

Conical surface Flux(120deg): 62530 lm

%lum = 92.1%

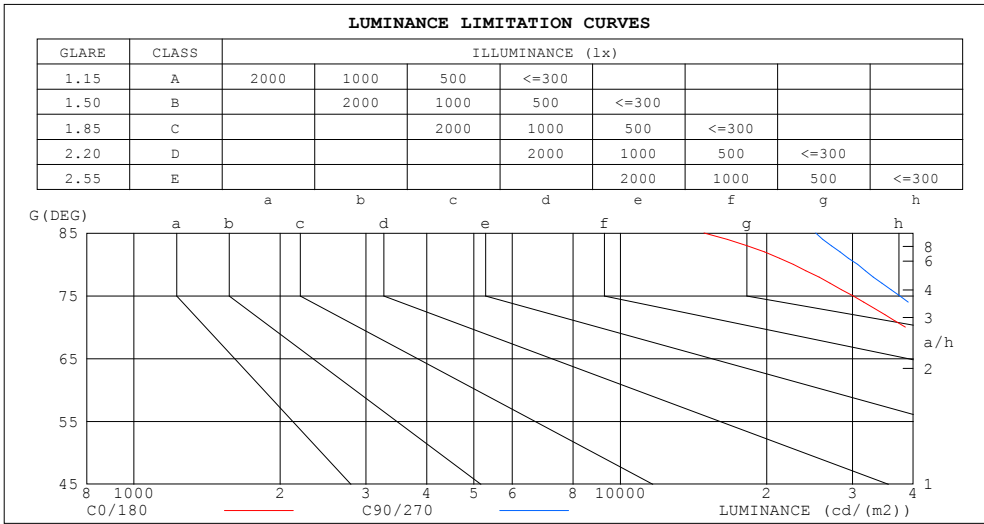
%lamp = 92.1%

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2023-04-28

□ Range: 0 - 180DEG
 □ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity:56%
 Test Distance:6.500m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.9V I:3.891A P:496.9W PF:0.9970 Freq:59.97Hz Lamp Flux:69357x1 lm		
NAME: ASD-UHB3-500ADAC-BK-500W3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.42*0.42m	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	14870	25211
80	22685	30768
75	30084	37508
70	38550	46190
65	49502	57938
60	65173	74817
55	87758	97529
50	119986	130862
45	166562	176239

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2023-04-28

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity:56%
 Test Distance:6.500m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:120.9V I:3.891A P:496.9W PF:0.9970 Freq:59.97Hz Lamp Flux:69357x1 lm		
NAME: ASD-UHB3-500ADAC-BK-500W3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.42*0.42m	Shielding Angle:

<input type="checkbox"/> cc	80%	70%	50%	30%	10%	0
<input type="checkbox"/> w	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
<input type="checkbox"/> fc	20%	20%	20%	20%	20%	0
RCR	RCR:Room Cavity Ratio		Wall Exitance Coefficients (WEC)			
0.0						
1.0	.237 .135 .043	.230 .131 .042	.217 .124 .040	.204 .118 .038	.193 .112 .036	
2.0	.230 .126 .039	.224 .123 .038	.212 .118 .037	.201 .113 .035	.191 .108 .034	
3.0	.218 .116 .035	.213 .114 .034	.203 .110 .033	.193 .106 .032	.185 .102 .032	
4.0	.206 .107 .032	.202 .106 .031	.193 .102 .031	.184 .099 .030	.176 .096 .029	
5.0	.195 .099 .029	.191 .098 .028	.183 .095 .028	.175 .092 .027	.168 .090 .027	
6.0	.184 .092 .026	.180 .091 .026	.173 .089 .026	.166 .086 .025	.160 .084 .025	
7.0	.174 .086 .024	.170 .085 .024	.164 .083 .024	.158 .081 .024	.152 .079 .023	
8.0	.164 .080 .023	.161 .079 .022	.156 .078 .022	.150 .076 .022	.145 .075 .022	
9.0	.156 .075 .021	.153 .075 .021	.148 .073 .021	.143 .072 .021	.138 .070 .020	
10.0	.148 .071 .020	.145 .070 .020	.141 .069 .019	.136 .068 .019	.132 .066 .019	

<input type="checkbox"/> cc	80%	70%	50%	30%	10%	0
<input type="checkbox"/> w	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
<input type="checkbox"/> fc	20%	20%	20%	20%	20%	0
RCR	RCR:Room Cavity Ratio		Ceiling Cavity Exitance Coefficients (CCEC)			
0.0	.198 .198 .198	.169 .169 .169	.115 .115 .115	.066 .066 .066	.021 .021 .021	
1.0	.183 .164 .148	.156 .141 .127	.107 .097 .088	.062 .056 .051	.020 .018 .017	
2.0	.171 .140 .113	.147 .120 .098	.101 .083 .068	.058 .048 .040	.019 .016 .013	
3.0	.162 .122 .089	.139 .105 .077	.095 .073 .054	.055 .043 .032	.018 .014 .010	
4.0	.154 .108 .072	.132 .093 .063	.091 .065 .044	.053 .038 .026	.017 .012 .009	
5.0	.147 .097 .060	.126 .084 .052	.087 .059 .037	.050 .034 .022	.016 .011 .007	
6.0	.140 .088 .051	.120 .076 .044	.083 .053 .031	.048 .031 .019	.016 .010 .006	
7.0	.134 .081 .044	.115 .070 .039	.079 .049 .027	.046 .029 .016	.015 .010 .005	
8.0	.128 .075 .039	.110 .065 .034	.076 .046 .024	.044 .027 .014	.014 .009 .005	
9.0	.123 .070 .035	.106 .061 .031	.073 .043 .022	.043 .025 .013	.014 .008 .004	
10.0	.118 .066 .032	.101 .057 .028	.070 .040 .020	.041 .024 .012	.013 .008 .004	

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2023-04-28

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity:56%
 Test Distance:6.500m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.9V I:3.891A P:496.9W PF:0.9970 Freq:59.97Hz Lamp Flux:69357x1 lm										
NAME: ASD-UHB3-500ADAC-BK-500W3000K					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: ASD Lighting Corp.					SUR.:0.42*0.42m			Shielding Angle:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	27.9	29.2	28.2	29.4	29.6	28.2	29.5	28.5	29.7	29.9
3H	28.1	29.3	28.4	29.5	29.8	28.5	29.7	28.8	29.9	30.2
4H	28.2	29.3	28.5	29.5	29.8	28.6	29.7	28.9	30.0	30.2
6H	28.2	29.2	28.5	29.5	29.8	28.6	29.7	29.0	29.9	30.2
8H	28.2	29.2	28.5	29.4	29.7	28.6	29.6	29.0	29.9	30.2
12H	28.1	29.1	28.5	29.4	29.7	28.6	29.6	29.0	29.9	30.2
4H 2H	28.0	29.1	28.3	29.4	29.6	28.3	29.4	28.6	29.6	29.9
3H	28.3	29.3	28.7	29.6	29.9	28.7	29.6	29.0	29.9	30.2
4H	28.5	29.3	28.8	29.6	30.0	28.8	29.7	29.2	30.0	30.4
6H	28.5	29.3	28.9	29.6	30.0	28.9	29.7	29.3	30.0	30.4
8H	28.5	29.2	28.9	29.6	30.0	28.9	29.6	29.4	30.0	30.4
12H	28.5	29.1	28.9	29.5	29.9	29.0	29.6	29.4	30.0	30.4
8H 4H	28.4	29.1	28.9	29.5	29.9	28.8	29.5	29.2	29.9	30.3
6H	28.5	29.1	29.0	29.5	30.0	29.0	29.5	29.4	29.9	30.4
8H	28.6	29.1	29.0	29.5	30.0	29.0	29.5	29.5	29.9	30.4
12H	28.6	29.0	29.0	29.4	29.9	29.0	29.5	29.5	29.9	30.4
12H 4H	28.4	29.0	28.8	29.4	29.9	28.8	29.4	29.2	29.8	30.2
6H	28.5	29.0	29.0	29.5	29.9	28.9	29.4	29.4	29.9	30.3
8H	28.6	29.0	29.0	29.4	29.9	29.0	29.4	29.5	29.9	30.4
Variations with the observer position at spacings:										
S = 1.0H	+ 1.1 / - 1.6					+ 1.0 / - 1.4				
1.5H	+ 1.1 / - 1.1					+ 1.0 / - 1.0				
2.0H	+ 2.4 / - 1.9					+ 2.3 / - 1.8				

CIE Pub.117, 67881 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 14.7)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2023-04-28

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity:56%
 Test Distance:6.500m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.9V I:3.891A P:496.9W PF:0.9970 Freq:59.97Hz Lamp Flux:69357x1 lm		
NAME: ASD-UHB3-500ADAC-BK-500W3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.42*0.42m	Shielding Angle:

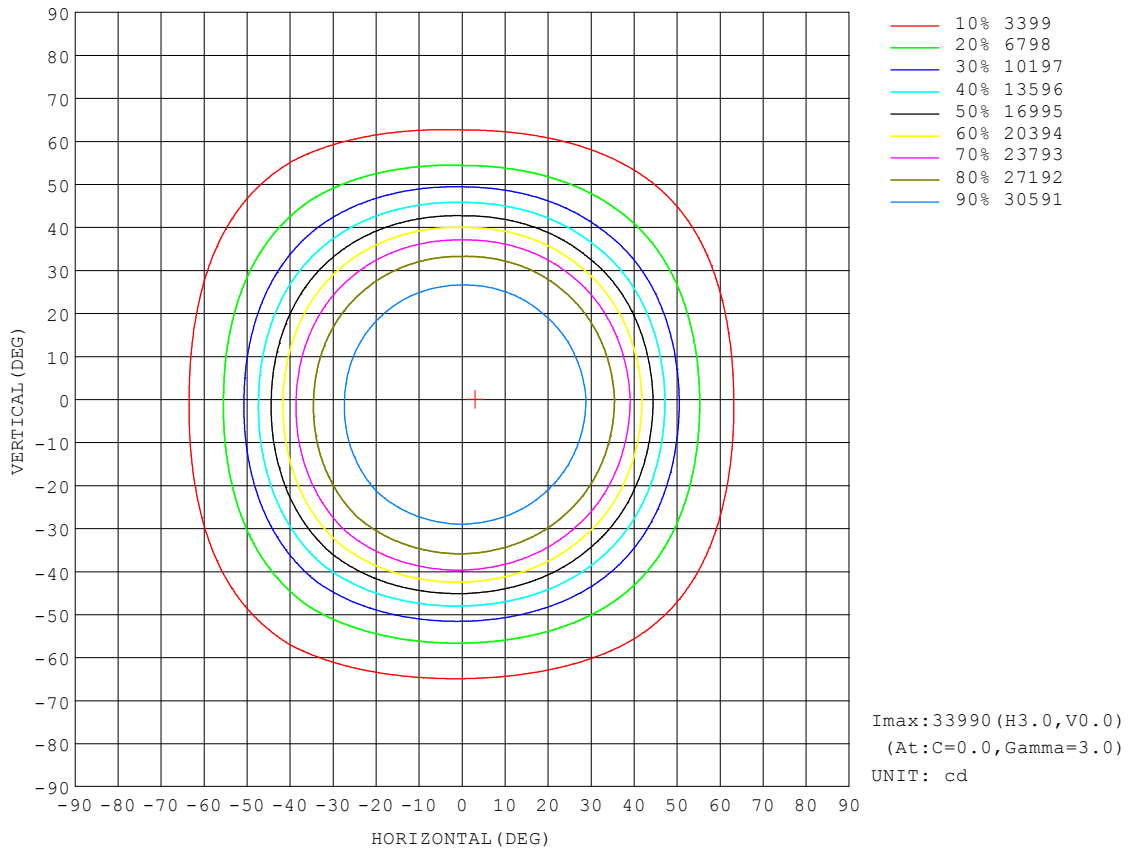
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	69	59	54	68	59	54	67	59	53	48
0.80	79	69	64	78	69	63	76	68	63	57
1.00	86	78	72	85	77	72	83	78	71	65
1.25	92	84	79	91	84	79	89	82	78	72
1.50	97	89	84	95	88	83	92	87	82	76
2.00	102	95	91	100	94	90	97	92	88	82
2.50	104	99	94	103	97	93	99	95	91	84
3.00	107	102	98	105	100	97	101	97	94	87
4.00	110	106	102	108	104	101	103	100	98	90
5.00	112	108	105	109	106	103	105	102	100	91
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2023-04-28

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity:56%
 Test Distance:6.500m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.9V I:3.891A P:496.9W PF:0.9970 Freq:59.97Hz Lamp Flux:69357x1 lm		
NAME: ASD-UHB3-500ADAC-BK-500W3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.42*0.42m	Shielding Angle:

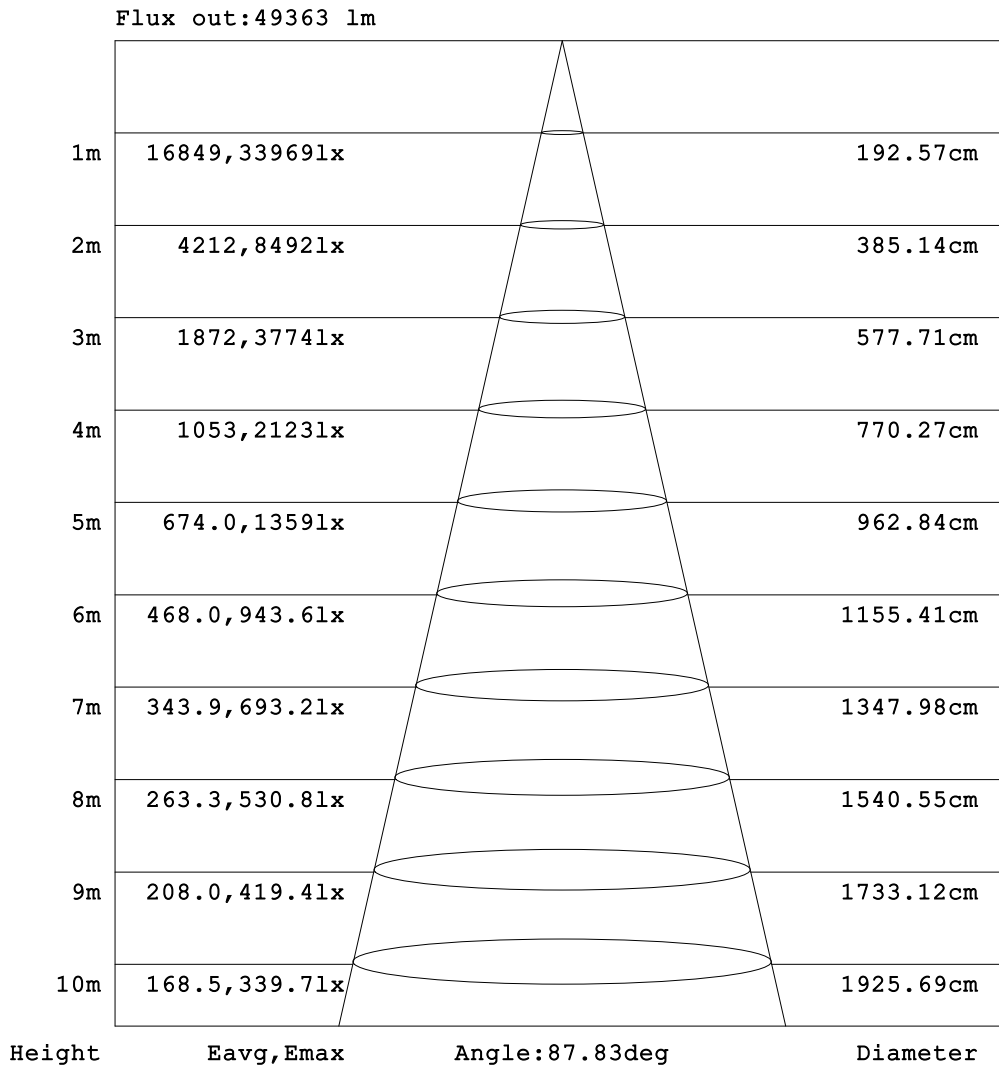


C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2023-04-28

□ Range: 0 - 180DEG
 □ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity:56%
 Test Distance:6.500m [K=1.0000]
 Remarks:

AAI Figure

Test:U:120.9V I:3.891A P:496.9W PF:0.9970 Freq:59.97Hz Lamp Flux:69357x1 lm		
NAME: ASD-UHB3-500ADAC-BK-500W3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.42*0.42m	Shielding Angle:

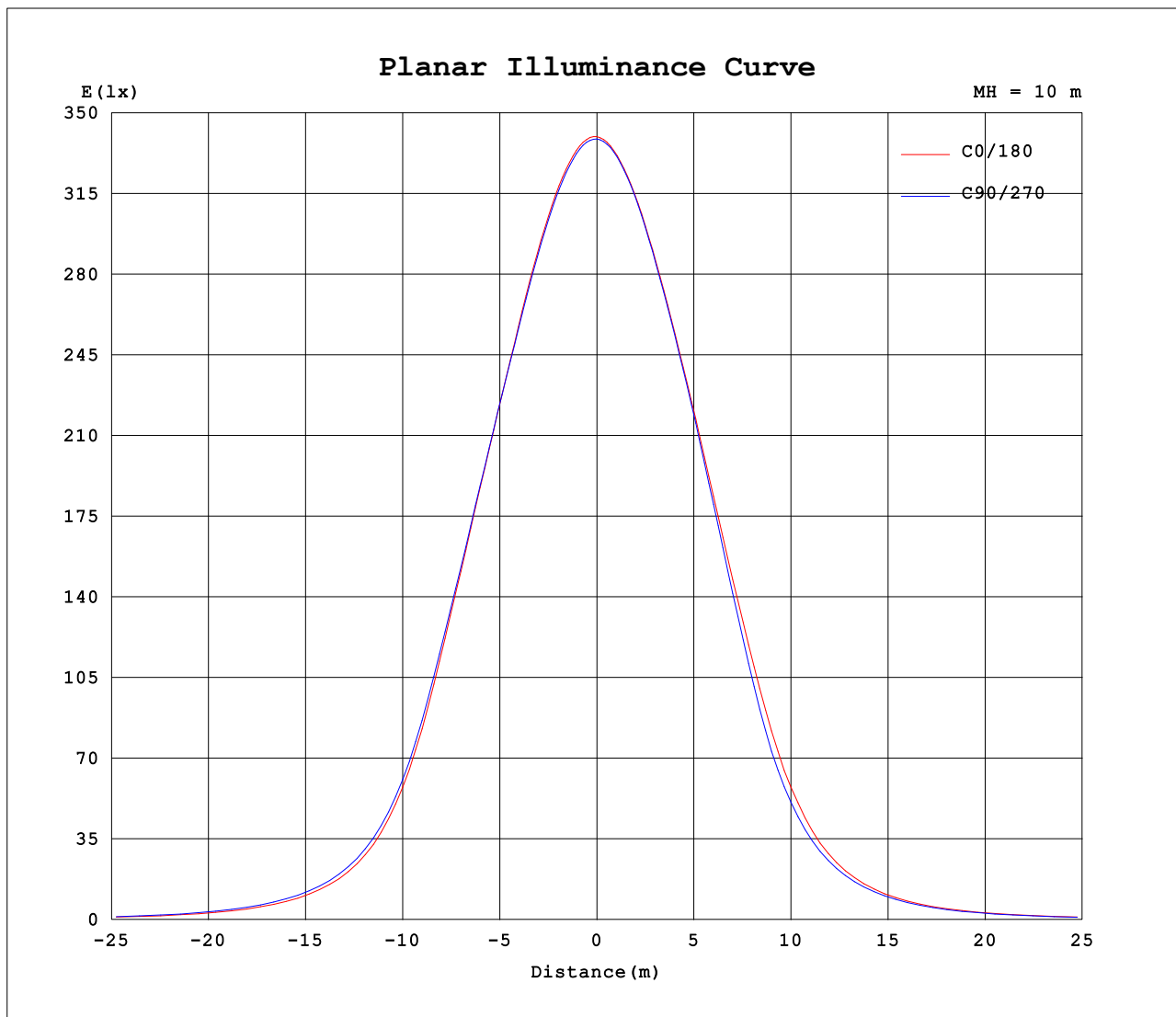


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2023-04-28

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity:56%
 Test Distance:6.500m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 27DEG
Operators: lianghaizhu
Test Date: 2023-04-28

Range: 0 - 180DEG
 Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.364
Humidity: 56%
Test Distance: 6.500m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.9V I:3.891A P:496.9W PF:0.9970 Freq:59.97Hz Lamp Flux:69357x1 lm		
NAME: ASD-UHB3-500ADAC-BK-500W3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.42*0.42m	Shielding Angle:

Table--1

UNIT: x10cd

C (DEG) □ (DEG)	0	45	90	135	180	225	270	315											
0	3397	3391	3386	3382	3397	3391	3386	3382											
5	3396	3390	3382	3371	3376	3371	3369	3372											
10	3373	3366	3355	3340	3338	3332	3332	3341											
15	3331	3324	3313	3296	3285	3276	3277	3294											
20	3263	3255	3247	3233	3215	3204	3204	3219											
25	3164	3159	3160	3153	3123	3108	3105	3116											
30	3017	3012	3027	3022	2962	2927	2916	2949											
35	2753	2743	2783	2783	2688	2615	2578	2638											
40	2274	2251	2349	2381	2231	2112	2033	2085											
45	1625	1626	1720	1776	1629	1519	1443	1453											
50	1064	1108	1161	1216	1083	1040	969	964											
55	695	746	772	808	707	714	644	650											
60	450	496	516	537	459	477	424	429											
65	289	323	338	351	296	311	277	278											
70	182	205	218	225	189	198	177	175											
75	107	121	134	138	116	119	104	101											
80	54.4	63.2	73.7	77.5	63.7	63.2	52.4	48.6											
85	17.9	22.7	30.3	33.6	25.6	23.4	16.3	13.0											
90	3.85	4.10	4.26	4.77	3.62	3.65	3.69	3.63											
95	3.98	4.16	4.12	3.91	3.75	3.80	3.86	3.81											
100	4.37	4.48	4.40	4.25	4.15	4.22	4.31	4.26											
105	4.88	4.95	4.87	4.76	4.73	4.79	4.83	4.83											
110	5.84	5.70	5.51	5.53	5.62	5.68	5.89	5.94											
115	7.34	7.15	6.95	6.94	7.12	7.17	7.42	7.45											
120	8.97	8.74	8.55	8.53	8.74	8.80	9.06	9.08											
125	10.7	10.4	10.2	10.2	10.5	10.5	10.8	10.8											
130	12.4	12.2	12.0	11.9	12.3	12.3	12.6	12.5											
135	14.1	13.8	13.7	13.6	14.0	14.0	14.3	14.2											
140	15.7	15.4	15.2	15.2	15.7	15.7	16.0	15.8											
145	17.2	17.0	16.8	16.7	17.3	17.3	17.6	17.4											
150	18.7	18.5	18.3	18.1	18.9	18.9	19.2	19.0											
155	20.3	20.1	19.8	19.7	20.6	20.5	20.8	20.6											
160	22.0	21.7	21.5	21.3	22.4	22.2	22.5	22.3											
165	23.7	23.3	23.3	23.0	24.0	23.8	24.2	23.9											
170	25.2	24.8	24.8	24.6	25.4	25.2	25.5	25.2											
175	26.3	25.9	26.0	25.7	26.4	26.1	26.4	26.1											
180	26.7	26.4	26.6	26.3	26.8	26.4	26.7	26.3											

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2023-04-28

□ Range: 0 - 180DEG
 □ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity:56%
 Test Distance:6.500m [K=1.0000]
 Remarks: